

ABSTRACT OF THE DISCLOSURE

A magnetic disk, comprising a magnetic layer, a protective layer, and a lubricating layer coatd at least on one surface of a flexible non-magnetic support member or a rigid non-magnetic support member, wherein the protective layer comprises a carbon film containing hydrogen, nitrogen, and rare gas elements, nitrogen content is 0.5 - 8.0 atom %, and rare gas content is 0.5 - 1.2 atom %, and a magnetic recording mode using a floppy disk, wherein magnetic signal is recorded and reproduced using a floppy disk device provided with a carbon protective layer on the surface of the head or the slider.